

Clay County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/25/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 17 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Clay County economy.¹

These 17 sectors have a total direct output of approximately **\$177.8 million** and support **655 jobs** in Clay County. Running the model for all 17 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Clay County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	654.9	14.15%	\$55,398,933	20.88%	\$177,829,925
Indirect Effect	184.1	3.98%	\$11,915,708	4.49%	\$25,807,186
Induced Effect	150.6	3.26%	\$8,979,879	3.38%	\$17,757,888
Total Effect	989.7	21.38%	\$76,294,519	28.75%	\$221,394,999

As shown in the above table, agriculture, food, and food processing sectors support **990 jobs**, or **21.38%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 17 agriculture, food, and food processing sectors is approximately **\$76.3 million**, or **28.75% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **268 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Clay County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	267.6	\$32,477,113
Grain farming	100.6	\$37,183,517
Animal production, except cattle and poultry and eggs	58.1	\$6,710,251
All other crop farming	50.7	\$3,952,974
Wholesale trade	48.4	\$9,123,920
Real estate	44.3	\$3,219,096
Oilseed farming	42.3	\$43,929,153
Farm machinery and equipment manufacturing	28.4	\$10,506,588
Other animal food manufacturing	27.5	\$33,463,158
Bread and bakery product, except frozen, manufacturing	26.5	\$3,418,314

The oilseed farming sector directly contributes approximately **\$43.9 million** to the Clay County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Oilseed farming	42.3	\$43,929,153
Grain farming	100.6	\$37,183,517
Other animal food manufacturing	27.5	\$33,463,158
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	267.6	\$32,477,113
Farm machinery and equipment manufacturing	28.4	\$10,506,588
Wholesale trade	48.4	\$9,123,920
Animal production, except cattle and poultry and eggs	58.1	\$6,710,251
All other crop farming	50.7	\$3,952,974
Owner-occupied dwellings	0.0	\$3,951,761
Truck transportation	26.1	\$3,797,533

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Clay County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	42.3	\$43,929,153.44
Grain farming	100.6	\$37,183,517.46
Vegetable and melon farming	1.6	\$240,024.72
Greenhouse, nursery, and floriculture production	3.3	\$337,561.13
All other crop farming	50.7	\$3,952,973.84
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	267.6	\$32,477,111.82
Dairy cattle and milk production	7.1	\$2,182,095.29
Poultry and egg production	0.9	\$573,271.33
Animal production, except cattle and poultry and eggs	58.1	\$6,710,251.33
Commercial hunting and trapping	0.7	\$13,541.23
Support activities for agriculture and forestry	10.6	\$356,623.95
Other animal food manufacturing	27.5	\$33,463,157.65
Bread and bakery product, except frozen, manufacturing	26.5	\$3,418,313.50
Frozen cakes and other pastries manufacturing	0.4	\$68,430.80
Farm machinery and equipment manufacturing	28.4	\$10,506,587.98
Veterinary services	18.1	\$1,642,362.24
Landscape and horticultural services	10.3	\$774,945.50

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Clay County, the retail sector was omitted.